# EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------|-----|------------------|---------|------------|
| S1 | 2319 | 455/232.1.ccls. or 455/234.1. ccls. or 455/333.ccls. or 455/334.ccls. | US-PGPUB; USPAT | OR | ON | 2007/09/11 12:46 |
| S2 | 4835469 | @ad<="20040913" | US-PGPUB; USPAT | OR | ON | 2007/09/11 12:46 |
| S3 | 1564 | S1 and S2 | US-PGPUB; USPAT | OR | ON | 2007/09/11 12:46 |
| S4 | 169 | S3 and control$3 near4 mixer | US-PGPUB; USPAT | OR | ON | 2007/09/11 12:49 |
| S5 | 115 | S4 and transistor | US-PGPUB; USPAT | OR | ON | 2007/09/11 12:49 |
| S6 | 29 | S5 and adjacent | US-PGPUB; USPAT | OR | ON | 2007/09/11 12:49 |
| S7 | 21 | ("4313212" \| "4591826" \| "4612585" \| "4736390" \| "4766497" \| "4953182" \| "4955078" \| "5265005" \| "5589791" \| "5633779" \| "5635892" \| "5736749" \| "5745838" \| "5748466" \| "5939911" \| "5987075" \| "6008102" \| "6031432" \| "6304656" \| "6307879" \| "6317589").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/11 12:56 |
| S8 | 582 | (operating or set) near4 point near4 transistor and mix$4 | US-PGPUB; USPAT | OR | ON | 2008/11/13 08:55 |
| S9 | 4915367 | @ad<="20040913" | US-PGPUB; USPAT | OR | ON | 2008/11/13 08:56 |
| S10 | 444 | S8 and S9 | US-PGPUB; USPAT | OR | ON | 2008/11/13 08:56 |
| S11 | 88 | S10 and "455"/$.ccls. | US-PGPUB; USPAT | OR | ON | 2008/11/13 08:56 |
| S12 | 27 | gain with mix$4 and S11 | US-PGPUB; USPAT | OR | ON | 2008/11/13 08:56 |
| S13 | 1 | "7340228".pn. | US-PGPUB; USPAT | OR | ON | 2008/11/13 09:16 |
| S14 | 1 | "7062236".pn. | US-PGPUB; USPAT | OR | ON | 2008/11/13 09:34 |
| S15 | 2600 | 455/232.1.ccls. or 455/234.1. ccls. or 455/333.ccls. or 455/334.ccls. | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |

| S16 | 4916440 | @ad<="20040913" | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S17 | 1651 | S15 and S16 | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S18 | 178 | S17 and control$3 near4 mixer | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S19 | 122 | S18 and transistor | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S20 | 32 | S19 and adjacent | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S21 | 21 | ("4313212" \| "4591826" \| "4612585" \| "4736390" \| "4766497" \| "4953182" \| "4955078" \| "5265005" \| "5589791" \| "5633779" \| "5635892" \| "5736749" \| "5745838" \| "5748466" \| "5939911" \| "5987075" \| "6008102" \| "6031432" \| "6304656" \| "6307879" \| "6317589").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/11/24 08:55 |
| S22 | 584 | (operating or set) near4 point near4 transistor and mix$4 | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S23 | 4916440 | @ad<="20040913" | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S24 | 444 | S22 and S23 | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S25 | 88 | S24 and "455"/$.ccls. | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S26 | 27 | gain with mix$4 and S25 | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S27 | 1 | "7340228".pn. | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S28 | 1 | "7062236".pn. | US-PGPUB; USPAT | OR | ON | 2008/11/24 08:55 |
| S29 | 30 | (operating or quiescent or bias or q) near4 point with mixer with control$5 | US-PGPUB; USPAT | OR | ON | 2009/06/02 13:55 |
| S30 | 4939611 | @ad<="20040913" | US-PGPUB; USPAT | OR | ON | 2009/06/02 13:55 |
| S31 | 23 | S29 and S30 | US-PGPUB; USPAT | OR | ON | 2009/06/02 13:55 |
| S32 | 4 | S31 and memory | US-PGPUB; USPAT | OR | ON | 2009/06/02 14:02 |
| S33 | 2853 | 455/232.1.ccls. or 455/234.1. ccls. or 455/333.ccls. or 455/334.ccls. | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |

| S34 | 4956676 | @ad<="20040913" | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
|-----|---------|------------------|-----------------|-----|-----|-------------------|
| S35 | 1679 | S33 and S34 | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S36 | 181 | S35 and control$3 near4 mixer | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S37 | 123 | S36 and transistor | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S38 | 32 | S37 and adjacent | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S39 | 21 | ("4313212" \| "4591826" \| "4612585" \| "4736390" \| "4766497" \| "4953182" \| "4955078" \| "5265005" \| "5589791" \| "5633779" \| "5635892" \| "5736749" \| "5745838" \| "5748466" \| "5939911" \| "5987075" \| "6008102" \| "6031432" \| "6304656" \| "6307879" \| "6317589").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/12/03 16:16 |
| S40 | 642 | (operating or set) near4 point near4 transistor and mix$4 | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S41 | 4956676 | @ad<="20040913" | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S42 | 449 | S40 and S41 | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S43 | 89 | S42 and "455"/$.ccls. | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S44 | 27 | gain with mix$4 and S43 | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S45 | 1 | "7340228".pn. | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S46 | 1 | "7062236".pn. | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S47 | 2853 | 455/232.1.ccls. or 455/234.1. ccls. or 455/333.ccls. or 455/334.ccls. | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S48 | 4956676 | @ad<="20040913" | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S49 | 1679 | S47 and S48 | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S50 | 181 | S49 and control$3 near4 mixer | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S51 | 123 | S50 and transistor | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S52 | 32 | S51 and adjacent | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |

| S53 | 21 | ("4313212" \| "4591826" \| "4612585" \| "4736390" \| "4766497" \| "4953182" \| "4955078" \| "5265005" \| "5589791" \| "5633779" \| "5635892" \| "5736749" \| "5745838" \| "5748466" \| "5939911" \| "5987075" \| "6008102" \| "6031432" \| "6304656" \| "6307879" \| "6317589").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/12/03 16:16 |
|-----|-----|-----|-----|-----|-----|-----|
| S54 | 642 | (operating or set) near4 point near4 transistor and mix$4 | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S55 | 4956676 | @ad<="20040913" | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S56 | 449 | S54 and S55 | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S57 | 89 | S56 and "455"/$.ccls. | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S58 | 27 | gain with mix$4 and S57 | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S59 | 1 | "7340228".pn. | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S60 | 1 | "7062236".pn. | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S61 | 31 | (operating or quiescent or bias or q) near4 point with mixer with control$5 | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S62 | 4956676 | @ad<="20040913" | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S63 | 23 | S61 and S62 | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S64 | 4 | S63 and memory | US-PGPUB; USPAT | OR | ON | 2009/12/03 16:16 |
| S65 | 341 | collector near4 current near4 (reduced or lessened or reduction or reduce) same gain | US-PGPUB; USPAT | OR | ON | 2010/06/09 15:39 |
| S66 | 271 | S65 and @ad<"20040913" | US-PGPUB; USPAT | OR | ON | 2010/06/09 15:39 |
| S67 | 0 | S66 and "intermodulation immunity" | US-PGPUB; USPAT | OR | ON | 2010/06/09 15:47 |
| S68 | 1473 | S66 and intermodulation or inter-modulation | US-PGPUB; USPAT | OR | ON | 2010/06/09 15:47 |
| S69 | 18 | S66 and (intermodulation or inter-modulation) | US-PGPUB; USPAT | OR | ON | 2010/06/09 15:48 |
| S70 | 1 | collector near4 current with gain with intermodulation | US-PGPUB; USPAT | OR | ON | 2010/06/09 15:51 |

| S71 | 20 | collector near4 current same gain same intermodulation | US-PGPUB; USPAT | OR | ON | 2010/06/09 15:52 |

**6/10/2010 11:20:58 AM**
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